## CONTENTS

<table>
<thead>
<tr>
<th>EXHIBITS</th>
<th>xiii</th>
</tr>
</thead>
<tbody>
<tr>
<td>PREFACE</td>
<td>xv</td>
</tr>
<tr>
<td>USING THIS BOOK</td>
<td>xvii</td>
</tr>
<tr>
<td>WORLD MAP OF HUMAN DEVELOPMENT INDEX</td>
<td>xviii</td>
</tr>
</tbody>
</table>

### I. INTRODUCTION

**Overview**

1

#### I.A. MEASURING DEVELOPMENT

- **Note I.A.1.** The Evolution of Measures of Development  
  12
- **Selection I.A.1.** Why Are Services Cheaper in the Poor Countries?  
  16
  - **Comment I.A.1.** The Productivity and Factor Proportions Explanations Again  
    20
- **Selection I.A.2.** Income Poverty  
  27
  - **Comment I.A.2.** Capabilities and Entitlements  
    31
- **Note I.A.2.** Other Important Differences Between Developed and Less Developed Countries  
  32

#### I.B. ECONOMIC PERFORMANCE OF LESS DEVELOPED COUNTRIES: THE RECENT PAST

- **Selection I.B.1.** The Lost Decades: Developing Countries’ Stagnation in Spite of Policy Reform 1980–1998  
  34
- **Note I.B.1.** No Easy Answers, Yet All Is Not Lost  
  41
- **Selection I.B.2.** How Reform Worked in China  
  45
- **Selection I.B.3.** India Since Independence  
  52
- **Selection I.B.4.** The Impact of the Economic Reforms in Latin America and the Caribbean  
  58
- **Selection I.B.5.** Why Has Africa Grown Slowly?  
  62

#### I.C. THE DISCIPLINE OF DEVELOPMENT ECONOMICS

- **Note I.C.1.** Evolution of Development Economics  
  73
  - **Comment I.C.1.** Classical Growth Theory  
    76
  - **Comment I.C.2.** Development Economics as a Special Subject  
    77
- **Note I.C.2.** New Endogenous Growth Theory  
  79
II. HISTORICAL PERSPECTIVE 81

Overview: The Division of the World 81

Selection II.1. The Spread of Economic Growth to the Third World: 1850–1980 84
  Comment II.1. State-owned Enterprises and Privatization 100

Selection II.2. The Division of the World and the Factoral Terms of Trade 101

Note II.1. Why Not Export First? 106
Note II.2. The Lewis Model of the World Economy 108

Selection II.3. Agricultural Productivity, Comparative Advantage, and Economic Growth 111
  Comment II.2. Income Elasticity of Demand for Food in the Matsuyama Model 114

Selection II.4. Income Distribution, Market Size, and Industrialization 115
  Comment II.3. Minimum Market Size in the Murphy–Shleifer–Vishny Model 117

Selection II.5. Factor Endowments, Inequality, and Paths of Development Among New World Economies 118

Selection II.6. Divergence, Big Time 127
  Comment II.4. Will the Poor Countries Catch Up? 131

III. INTERNATIONAL TRADE AND TECHNOLOGY TRANSFER 133

Overview 133

III.A. TRADE 133

Note III.A.1. Natural Resource Abundance, International Trade, and Economic Growth 140

Note III.A.2. Import-substituting Industrialization and the Infant-Industry Argument 144

Selection III.A.1. Typology in Development Theory: Retrospective and Prospects 146

Selection III.A.2. An Exposition and Exploration of Krueger’s Trade Model 151
  Comment III.A.1. Moving Up the Ladder and Changes in Relative Costs of Factors of Production 154

Selection III.A.3. The Process of Industrial Development and Alternative Development Strategies 156

Selection III.A.4. Getting Interventions Right: How South Korea and Taiwan Grew Rich 163

Note III.A.3. Tradeability of Intermediate Goods, Linkages, and Bottlenecks 170

III.B. FOREIGN CONTACT AND TECHNOLOGY TRANSFER 172

Note III.B.1. Learning in International Production Networks 172

Selection III.B.1. Technology Gaps Between Industrial and Developing Countries: Are There Dividends for Latecomers? 175

Selection III.B.2. The Potential Benefits of FDI for Less Developed Countries 178

Note III.B.2. Trade as Enemy, Handmaiden, and Engine of Growth 180
IV. HUMAN RESOURCES 183

Overview 184

IV.A. EDUCATION 187

Note IV.A.1. Three Views of the Contribution of Education to Economic Growth 187
Selection IV.A.1. Economic Impact of Education 189
Comment IV.A.1. Updated Estimates of Returns to Investment in Education 192
Comment IV.A.2. Ability Differences, Spillovers, and the Returns to Investment in Education 193
Selection IV.A.2. Creating Human Capital 194
Selection IV.A.3. Schooling and Labor Market Consequences of School Construction in Indonesia 198
Selection IV.A.4. Interpreting Recent Research on Schooling in Developing Countries 201
Selection IV.A.5. School Inputs and Educational Outcomes in South Africa 206

IV.B. HEALTH 212

Selection IV.B.1. Pharmaceuticals and the Developing World 218
Selection IV.B.2. Identifying Impacts of Intestinal Worms on Health in the Presence of Treatment Externalities 225
Selection IV.B.3. Confronting AIDS 231

IV.C. POPULATION 240

Note IV.C.1. The Size of the World’s Population and the Size of the Average Family 247
Selection IV.C.1. Economic Approaches to Population Growth 248
Selection IV.C.2. Demographic Trends in Sub-Saharan Africa 255
Comment IV.C.1. The “Demographic Dividend” 260

IV.D. GENDER AND DEVELOPMENT 261

Selection IV.D.1. Gender Inequality at the Start of the 21st Century 261
Selection IV.D.2. Missing Women 275
Selection IV.D.3. Women as Policy Makers 284

V. INVESTMENT AND FINANCE 293

Overview: Investment and Finance: The Engines of Growth? 293

Note V.1. The AK Model 297
Selection V.1. Is Fixed Investment the Key to Economic Growth? 300
Selection V.2. Financial Development and Economic Growth 303
Selection V.3. Taming International Capital Flows 309
Selection V.4. Can Foreign Aid Buy Growth? 315
Selection V.5. The Microfinance Promise 320
VI. URBANIZATION AND THE INFORMAL SECTOR 331

Overview 331

VI.A. URBAN GROWTH AND INFRASTRUCTURE 336

Selection VI.A.1. Urban Growth in Developing Countries: A Demographic Reappraisal 336
Selection VI.A.2. Urban Primacy, External Costs, and Quality of Life 338
Selection VI.A.3. The Impact of the Privatization of Water Services on Child Mortality in Argentina 343

VI.B. RURAL-URBAN MIGRATION AND THE INFORMAL SECTOR 353

Selection VI.B.1. Economic Development with Unlimited Supplies of Labor 355
Selection VI.B.2. A Model of Labor Migration and Urban Unemployment in Less Developed Countries 358
Note VI.B.1. The Lewis Versus the Harris–Todaro View of Underemployment in Less Developed Countries 360
Selection VI.B.3. Wage Spillover and Unemployment in a Wage-Gap Economy: The Jamaican Case 365
Note VI.B.2. Econometric Studies of Migration 370
Selection VI.B.5. The Role of the Informal Sector in the Migration Process: A Test of Probabilistic Migration Models and Labour Market Segmentation for India 376

VII. AGRICULTURE 381

Overview 381

VII.A. DESIGNING AN AGRICULTURAL STRATEGY 384

Selection VII.A.1. Agriculture, Climate, and Technology: Why Are the Tropics Falling Behind? 388
Note VII.A.1. Food, Hunger, Famine 393
Selection VII.A.2. Agricultural Development Strategies 394
Note VII.A.2. Induced Technical and Institutional Change 397
Comment VII.A.1. The Green Revolution 398
Selection VII.A.3. Some Theoretical Aspects of Agricultural Policies 400
Selection VII.A.4. Rural Infrastructure 404
Selection VII.A.5. Prospects and Strategies for Land Reform 407

VII.B. MICROECONOMICS OF THE RURAL SECTOR 416

Selection VII.B.1. The New Development Economics 416
Selection VII.B.2. Contractual Arrangements, Employment, and Wages in Rural Labor Markets: A Critical Review 420
Selection VII.B.3. The New Institutional Economics and Development Theory 423
Selection VII.B.4. Rural Credit Markets and Institutions in Developing Countries: Lessons for Policy Analysis from Practice and Modern Theory 425
Selection VII.B.5. A Survey of Agricultural Household Models: Recent Findings and Policy Implications 428
Comment VII.B.1. Supply Functions and Price Responsiveness 430

VIII. INCOME DISTRIBUTION 433
Overview 433
Note VIII.1. Measurement of Income Inequality 437

VIII.A. THE IMPACT OF DEVELOPMENT ON INCOME DISTRIBUTION 444
Selection VIII.A.1. Economic Growth and Income Inequality 444
Selection VIII.A.2. A Note on the U Hypothesis Relating Income Inequality and Economic Development 449
Selection VIII.A.3. Economic Development, Urban Underemployment, and Income Inequality 450
Comment VIII.A.1. The Informal Sector, Intraurban Inequality, and the Inverted U 454
Selection VIII.A.4. Explaining Inequality the World Round: Cohort Size, Kuznets Curves, and Openness 456
Comment VIII.A.2. Evidence for the Inverted U Across Countries Versus Within Countries over Time 463

VIII.B. THE IMPACT OF INCOME DISTRIBUTION ON DEVELOPMENT 465
Selection VIII.B.1. The Middle Class Consensus and Economic Development 465
Selection VIII.B.2. Income Distribution, Political Instability, and Investment 468

VIII.C. CASE STUDIES 473
Selection VIII.C.2. Falling Inequality in Rural Indonesia, 1978–1993 481

IX. POLITICAL ECONOMY 489
Overview 489

IX.A. THE (PROPER) ROLE OF THE STATE IN LESS DEVELOPED COUNTRIES 494
Selection IX.A.1. Public Policy and the Economics of Development 494
Comment IX.A.1. Development Planning 499
Comment IX.A.2. Governing the Market 500
## IX.B. RENT SEEKING AND GOVERNMENT FAILURE

**Note IX.B.1. What Are Rents?**  
502

**Selection IX.B.1. The Political Economy of the Rent-Seeking Society**  
505

**Comment IX.B.1. Complete Rent Dissipation Through Competitive Rent Seeking in the Harris–Todaro Model**  
508

**Comment IX.B.2. The Relationship Between Rent Seeking and Corruption**  
508

**Selection IX.B.2. The Regulation of Entry**  
510

**Selection IX.B.3. Africa's Growth Tragedy: Policies and Ethnic Divisions**  
521

## IX.C. STATE CAPACITY

**Selection IX.C.1. Institutions and Economic Performance:**  
Cross-Country Tests Using Alternative Institutional Measures  
536

**Selection IX.C.2. The State as Problem and Solution:**  
Predation, Embedded Autonomy, and Structural Change  
541

**Selection IX.C.3. Taking Trade Policy Seriously:**  
Export Subsidization as a Case Study in Policy Effectiveness  
560

**Selection IX.C.4. Bureaucratic Structure and Bureaucratic Performance in Less Developed Countries**  
573

## X. DEVELOPMENT AND THE ENVIRONMENT

**Overview: Environmental Problems in Less Versus More Developed Countries**  
581

**Selection X.1. Development and the Environment**  
588

**Comment X.1. The “Environmental Kuznets Curve”**  
597

**Selection X.2. North–South Trade and the Global Environment**  
599

**Comment X.2. Empirical Studies of the Impact of International Trade on the Environment in Less Developed Countries**  
601

**Selection X.3. Deforestation and the Rule of Law in a Cross Section of Countries**  
603

**Selection X.4. Determinants of Pollution Abatement in Developing Countries: Evidence from South and Southeast Asia**  
612

**Selection X.5. Genuine Savings Rates in Developing Countries**  
622

## APPENDIX: HOW TO READ A REGRESSION TABLE  
633

## INDEX OF SELECTION AUTHORS  
639

## INDEX  
641
EXHIBITS

Exhibit I.A.1. The Human Development Index 5
Exhibit I.A.2. Human Development Index Rankings Compared to U.S. Dollar Per Capita GDP Rankings 6
Exhibit I.A.3. Exchange-Rate-Deviation Index in Relation to Real GDP Per Capita 15
Exhibit I.A.4. Basic Data 21
Exhibit I.B.1. Life Expectancy and Educational Attainment Versus Per Capita GDP: Recent Performance of Less Developed Countries 42
Exhibit I.B.2. Country Average Versus Population-Weighted Per Capita GDP Growth Rates: Recent Performance of Less Developed Countries 43
Exhibit I.B.3. Catching Up to the Core 44
Exhibit III.A.1. Share of Primary Products in Merchandise Exports and Index of Export Concentration 137
Exhibit IV.B.1. Health Indicators 212
Exhibit IV.C.1. Demographic Data and Population Forecasts, by Human Development Index and Geographic Region 240
Exhibit V.1. Investment and Financial Indicators in Fast and Slow Growth Economies 296
Exhibit VI.B.1. Self-Employment and Unpaid Family Labor 353
Exhibit VII.A.1. Agricultural Labor Force and Productivity 385
Exhibit VIII.1. Income Distribution and Inequality Measures 440
Exhibit IX.A.1. Market Failure and State Intervention 499
Exhibit X.1. Environmental Indicators 584